Figure 1

AAGGAGCACC ACGAAAACGC CCCAACTGGT GGGGCGTAGG CCGTGAGGGG TTCTTGTCTG TAGTGGGCGA
GAGCCGGGTG CATGACAACA AAGTTGGCCA CCAACACACT GTTGGGTCCT GAGGCAACAC TCGGACTTGT
TCCAGGTGTT GTCCCACCGC CTTGGTGGTG GGGTGTGGTG TTTGAGAACT GGATAGTGGT TGCGAGCATC
AATGGATACG CTGCCGGCTA GCGGTGGCGT GTTCTTTGTG CAATATTCTT TGGTTTTTGT TGTGT

(SEQ ID NO 76)

Figure 2

AAGGAGCACC ACGAAAAGCA CCCCAACTGG TGGGGTGCGA GCCGTGAGGG GTTCCCGTCT GTAGTGGACG
GGGGCCGGNT GCGCAACAGC AAATGATTGC CAGACACACT ATTGGGCCCT GAGACAACAC TCGGTCCGTC
CGTGTGGAGT CCCTCCATCT TGGTGGTGGG GTGTGGTGTT TGAGTATTGG ATAGTGGTTG CGAGCATCTA
GATGAGCGCA TGGTCTTCGT GGCCGGCGTT CATCGAAATG TGTAATTTCT TCCTTAACTC TTGTGTGT

(SEQ ID NO 77)

Figure 3

AAGGAGCACC ACGAAAAGCA CCCCAACTGG TGGGGTGCGA GCCGTGAGGG GTTCCCGTCT GTAGTGGACG
GGGGCCGGGT GCGCAACAGC AAATGATTGC CAGACACACT ATTGGGCCCT GAGACAACAC TCGGTCCGTC
CGTGTGGAGT CCCTCCATCT TGGTGGTGGG GTGTGGTGTT TGAGTATTGG ATAGTGGTTG CGAGCATCTA
GATGAGCGCA TGGTCTTCGT GGCCGGCGTT CATCGAAATG TGTAATTTCT TTTTTAACTC TTGTGTGT

(SEQ ID NO 78)

Figure 4

AAGGAGCACC ACGAAAAGCA CTCCAATTGG TGGGGTGCGA GCCGTGAGGG GTTCCCGTCT GTAGTGGACG
GGGGCCGGNT GCACAACAGC AAATGATTGC CAGACACACT ATTGGGCCCT GAGACAACAC TCGGTCGATC
CGTGTGGAGT CCCTCCATCT TGGTGGTGGG GTGTGGTGTT TGAGTATTGG ATAGTGGTTG CGAGCATCTA
GATGAGCGCA TAGTCCTTGT GGCTGATGCG CTCGTCGAAA TGTGTAATTT CTTCTTTGGT GTNTGTGTGT

(SEQ ID NO 79)

Figure 5

AAGGAGCACC ACGAAAAGCA TCCCAATTGG TGGGGTGCGA GCCGTGAGGG GTTCTCGTCT GTAGTGGACG
AAAACCGGGT GCACAACAGC AAATGATTGC CAGACACACT ATTGGGCCCT GAGACAACAC TCGGTCGATC
CGTGTGGAGT CCCTCCATCT TGGTGGTGGG GTGTGGTGTT TGAGTATTGG ATAGTGGTTG CGAGCATCTA
GATGAGCGCG TAGTCCTTTG TGGCTGATGC GTTCATCAAA ATGTGTAATT TCTTTTTTGG TTTNTGTGTG
T

(SEQ ID NO 80)

Figure 6

AAGGAGCACC ACGAAAAGCA CTCCAATTGG TGGGGTGCGA GCCGTGAGGG GTTCCCGTCT GTAGTGGACG

GGGGCCGGGT GCACAACAGC AAATGATTGC CAGACACACT ATTGGGCCCT GAGACAACAC TCGGTCGATC

CGTGTGGAGT CCCTCCATCT TGGTGGTGGG GTGTGGTGTT TGAGTATTGG ATAGTGGTTG CGAGCATCTA

GATGAGCGCA TAGCCCTTGC GGCTGATGCG TTCGNCGAAA TGTGTAATTT CTTCTCTGGT TTCTGTGTGT

(SEQ ID NO 81)

Figure 7

AAGGAGCACC ACGAAAAGCA CTCCAATTGG TGGGGTGCGA GCCGTGAGGG GTTCTCGTCT GTAGTGGACG
GNAGCCGGGT GCACAACAGC AAATGATTGC CAGACACACT ATTGGGCCCT GAGACAACAC TCGGTCGATC
CGTGTGGAGT CCCTCCATCT TGGTGGTGGG GTGTGGTGTT TGAGTATTGG ATAGTGGTTG CGAGCATCTA
GATGAGCGCG TAGTCCTTCG TGGCTGATGC GTTCATCGAA ATGTGTAATT TCTTCTTTGG TTTTGGGTGT
GT

(SEQ ID NO 82)

Figure 8

AAGGAGCACC ACGAAAAGCA CTCCAATTGG TGGGGTGCGA GCCGTGAGGG GTTCCCGTCT GTAGTGGACG
GGGGCCGGGT GCACAACAGC AAATGATCGC CAGACACACT ATTGGGCCCT GAGACAACAC TCGGTCGATC
CGTGTGGAGT CCCTCCATCT TGGTGGTGGG GTGTGGTGTT TGAGTATTGG ATAGTGGTTG CGAGCATCTA
GATGAGCGCA TAGTCCTTTG GGGCTGATGT GTTTCATCAA AATGTGTAAT TTCTTTTTNG GTTTTNGTGT
GT

(SEQ ID NO 83)

Figure 9

AAGGAGCACC ACGAAAAGCA CTCCAATTGG TGGGGTGCGA GCCGTGAGGG GTTCTCGTCT GTAGTGGACG
GGAGCCGGGT GCACAACAGC AAATGATTGC CAGACACACT ATTGGGCCCT GAGACAACAC TCGGTCGATC
CGTGTGGAGT CCCTCCATCT TGGTGGTGGG GTGTGGTGTT TGAGTATTGG ATAGTGGTTG CGAGCATCTA
GATGAGCGCG TAGTCCTTCG TGGCTGATGC GTTCATTGAA ATGTGTAATT TCTTCTCTGG TTTTTGTGTG
T

(SEQ ID NO 84)

Figure 10

AAGGAGCACC ACGAAAAGCA CTCCAATTGG TGGGGTGCGA GCCGTGAGGG GTTCCCGTCT GTAGTGGACG
GGGGCCGGGT GCACAACAGC AAATGATTGC CAGACACACT ATTGGGCCCT GAGACAACAC TCGGTCGATC
CGTGTGGAGT CCCTCCATCT TGGTGGTGGG GTGTGGTGTT TGAGTATTGG ATAGTGGTTG CGAGCATCTA
GATGAGCGCA TAGTCCTTGT GGCTGATGCG CTCGTCGAAA TGTGTAATTT CTTCTTTGGT TTTTGTGTGT

(SEQ ID NO 85)

Figure 11

AAGGAGCACC ACGAAAAGCA CTCCAATTGG TGGGGTGCGA GCCGTGAGGG GTTCCCGTCT GTAGTGGACG

GGGGCCGGGT GCGCAACAGC AAATGATTGC CAGACACACT ATTGGGCCCT GAGACAACAC TCGGTCGATC

CGTGTGGAGT CCCTCCATCT TGGTGGTGGG GTGTTGGTGT TTGAGTATTG GATAGTGGTT GCGAGCATCT

AGATGAGCGC GTAGTCCTTG TGGCTGATGC GTTCGTCGAA ATGTGTAATT TCTTCTTTGG GTTTTTGTGT

GT

(SEQ ID NO 86)

Figure 12

AAGGAGCACC ACGAAAAGCA CCCCAATTGG TGGGGTGCGA GCCGTGAGGG GTTCTCGTCT GTAGTGGACG

GNAGCCGGNT GCGCAACAGC AAATGATTGC CAGACACACT ATTGGGCCCT GAGACAACAC TCGGNCGATC

CGTGTGGAGT CCCTCCATCT TGGTGGTGGG GTGTNGTGTT TGAGTATTGG ATAGTGGTTG CGAGCATCTA

GATGGGCGCG TAGTCCTTTG TGACTGATGC GTTCATCAAA ATGTGTAATT TCTTTTTTGN NTTTNGTGTG

T

(SEQ ID NO 87)

Figure 13

AAGGAGCACC ACGAAAAGCA CTCCAATTGG TGGGGTGCGA GCCGTGAGGG GTTCTCGTCT GTAGTGGACG
GGAACCGGGT GCACAACAGC AAATGATTGC CAGACACACT ATTGGGCCCT GAGACAACAC TCGGTCGATC
CGTGTGGAGT CCCTCCATCT TGGTGGTGGG GTGTGGTGTT TGAGTATTGG ATAGTGGTTG CGAGCATCTA
GATGAGCGCA TAGTCCTTTG TGGCTGACGC GTTCATCGAA ATGTGTAATT TCTTCTTTGG TTTTTGTGTG
T

(SEQ ID NO 88)

Figure 14

AAGGAGCACC ACGAAAAGCA CTCCAATTGG TGGGGTGCGA GCCGTGANGG GTTCCCGTCT GTAGTGGACG
GGGGCCGGGT GCACAACAGC AAATGATTGC CAGACACACT ATTGGGCCCT GAGACAACAC TCGGTCGATC
CGTGTGGAGT CCCTCCATCT TGGTGGTGGG GTGTGGTGTT TGAGTATTGG ATAGTGGTTG CGAGCATCTA
GATGAGCGCA TAGTCCTTAG GGCTGATGCG TTCGTCGNAA TGTGTAATTT CTTCTTTGGT TTTTGTGTGT

(SEQ ID NO 89)

Figure 15

AAGGAGCACC ACGAAAAGCA TCCCAATTGG TGGGGTGCGA GCCGTGAGGG GTTCTCGTCT GTAGTGGACG
AAAACCGGGT GCACAACAGC AAATAATTGC CAGACACACT ATTGGGCCCT GAGACAACAC TCGGTCGATC
CGTGTGGTGT CCCTCCATCT TGGTGGTGGG GTGTGGTGTT TGAGTATTGG ATAGTGGTTG CGAGCATCTA
GATGAACGCG TAGTCCTTCG TGGCTGACGT GTTCATCGAA ATGTGTAATT TCTTNTNTTA ACTCTTGTGT
GT

(SEQ ID NO 90)

Figure 16

AAGGAGCACC ACGAAAAGCA CCCCAATTGG TGGGGTGCGA GCCGTGAGGG GTTCTCGTCT GTAGTGGACG

GGAGCCGGGT GCACAACAGC AAATGATTGC CAGACACACT ATTGGGCCCT GAGACAACAC TCGGTCAGTC

CGTGTGGTGT CCCTCCATCT TGGTGGTGGG GTGTGGTGTT TGAGTATTGG ATAGTGGTTG CGAGCATCTA

GATGAACGCG TAGTCCTTGT GACTGACGTG TTCATCGAAA TGTGTAATTT CTTTTCTAAC TCTTGTGTGT

(SEQ ID NO 91)

Figure 17

AAGGAGCACC ACGAAAAGCA CTTCAATTGG TGAAGTGCGA GCCGTGAGGG GTTCTCGTCT GTAGTGGACG

AAAGCCGGGT GCACAACAGC AAATGATTGC CAGACACACT ATTGGGCCCT GAGACAACAC TCGGTCGAAC

CGTGTGGAGT CCCTCCATCT TGGTGGTCGG GTGTGGTGTT TGAGTATTGG ATAGTGGTTG CGAGCATCTA

GATGAACGCG TGGTCTTCAT GGCCGGCGTG TTCATCGAAA TGTGTAATAT CTTCTCTGGT TTTCGGTGTG

T

(SEQ ID NO 92)

Figure 18

AAGGAGCACC ACGAAAAGCA CTTCAATTGG TGAAGTGCGA GCCGTGAGGG GTTCTCGTCT GTAGTGGACG

AAAACCGGNT GCACAACAGC AAATGATTGC CAGACACACT ATTGGGCCCT GAGACAACAC TCGGTCGATC

CGTGTGGAGT CCCTCCATCT TGGTGGTGGG GTGTGGTGTT TGAGTATTGG ATAGTGGTTG CGAGCATCTA

GATGAACGCG TGGTCTTCAT GGCCGGCGTG TTCATCGAAA TGTGTAATTT CTTTTTNNAC TCTTGTGTGT

(SEQ ID NO 93)

Figure 19

AAGGAGCACC ACGAAAAGCA CTTCAATTGG TGAAGTGCGA GCCGTGAGGG GTTCTCGTCT GTAGTGGACG
AAAGCCGGGT GCACAACAGC AAATGATTGC CAGACACACT ATTGGGCCCT GAGACAACAC TCGGTCGAAC
CGTGTGGAGT CCCTCCATCT TGGTGGTGGG GTGTGGTGTT TGAGTATTGG ATAGTGGTTG CGAGCATCTA
GATGAACGCG TGGTCTTCAT GGCCGGCGTG TTCATCGAAA TGTGTAATTT CTTCTTTGGT TTTNGTGTGT

(SEQ ID NO 94)

Figure 20

AAGGAGCACC ACGAAAAGCA CTTCAATTGG TGAAGTGCGA GCCGTGAGGG GTTCTCGTCT GTAGTGGACG

AAAACCGGGT GCACAACAGC AAATGATTGC CAGACACACT ATTGGGCCCT GAGACAACAC TCGGTCGATC

CGTGTGGAGT CCCTCCATCT TGGTGGTGGG GTGTGGTGTT TGAGTATTGG ATAGTGGTTG CGAGCATCTA

GATGAACGCG TAGTCCTTCG NGGNCNGCGT GTTCATCGAA ATGTGTAATT TCTNTTNTAA CTCTNGTGTG

T

(SEQ ID NO 95)

Figure 21

AAGGAGCACC ACGAAAAGCA TCCCAATTGG TGGGGTGTGA GCCGTGAGGG GTTCTCGTCT GTAGTGGACG

AAAACCGGGT GCACAACAGC AAATGATTGC CAGACACACT ATTGGGCCCT GAGACAACAC TCGGTCGATC

CGTGTGGAGT CCCTCCATCT TGGTGGTGGG GTGTGGTGTT TGAGTATTGG ATAGTGGTTG CGAGCATCTA

GATGAACGCG TAGTCCTTCG GGGCCGGCGT GTTCATCGAA ATGTGTAATT TCTTTTTTAA CTCTTGTGTG

T

(SEQ ID NO 96)

Figure 22

AAGGAGCACC ACGAAAAGCA CTTCANTTGG TGAAGTGCGA GCCGTGAGGG GTTCTCGTCT GTAGTGGACG
AAAACCGGGT GCACAACAGC AAATGATTGC CAGACACACT ATTGGGCCCT GAGACAACAC TCGGTCGAAC
CGTGTGGAGT CCCTCCATCT TGGTGGTGGG GTGTGGTGTT TGAGTATTGG ATAGTGGTTG CGAGCATCTA
GATGAACGCG TGGTCTTCAT GGCCGGCGTG TTCATCGAAA TGTGTAATTT CTTCTTTAAC TCTTGTGTGT

(SEQ ID NO 97)

Figure 23

AAGGAGCACC ACGAAAAGCA CTTCAATTGG TGAAGTGCGA GCCGTGAGGG GTTCTCGTCT GTAGTGGACG
AAAACCGGGT GCACAACAGN AAATGATTGC CAGACACACT ATTGGGCCCT GAGACAACAC TCGGTCGATC
CGTGTGGAGT CCCTCCATCT TGGTGGTGGG GTGTGGTGTT TGAGTATTGG ATAGTGGTTG CGAGCATCTA
GATGAACGCG TGGTCTTCAT GGCCNGCGTG TTCATCGAAA TGTGTAATTT CTTTTTTAAC TCTTGTGTGT

(SEQ ID NO 98)

Figure 24

AAGGAGCACC ACGAAAAGCA CTTCAATTGG TGAAGTGCGA GCCGTGAGGG GTTCTCGTCT GTAGTGGACG
AAAACCGGGT GCACAACAGC AAATGATTGC CAGACACACT ATTGGGCCCT GAGACAACAC TCGGTCGATC
CGTGTGGAGT CCCTCCATCT TGGTGGTGGG GTGTGGTGTT TGAGTATTGG ATAGTGGTTG CGAGCATCTA
GATGAACGCG TGGTCTTCAT GGCCGGCGTG TTCATCGAAA TGTGTAATTT CTTTTTTAAC TCTTGTGTGT

(SEQ ID NO 99)

Figure 25

AAGGAGCACC ACGAAAAGCA CCCCAACTGG TGGGGTGCGA GCCGTGAGGG GTCCTCGCCT GTAGTGGGCG
GGGGCCGGGT GCACAACAGC AAATGATTGC CAGACACACT ATTGGGCCCT GAGGCAACAC TCGGCTCGTT
CTGAGTGGTG TCCCTCCATC TTGGTGGTGG GGTGTGGTGT TTGAGTATTG GATAGTGGTT GCGAGCATCT
AAACGGATGC GTGGCCGGCA ACGGTGGCGT GTTCGTTGAA ATGTGTAATT TCTTTTTTGG TTTTTGTGTG
T

(SEQ ID NO 100)

Figure 26

AAGGAGCACC ACGAAAAGCA TCCCAACAAG TGGGGTGCAA NCCGTGAGGG GTTCTCGTCT GTAGTGGACG

AAAGCCGGGT GCACGACAAC AAGCAAAGCC AGACACACTA TTGGGTCCTG AGGCAACACT CGGGCTCTGT

TCGAGAGTTG TCCCACCATC TTGGTGGTGG GGTGTGGTGT TTGAGAATTG GATAGTGGTT GCGAGCATCA

AATGGATGCG TTGCCCTACG GGTAGCGTGT TCTTTTGTGC AATTTTATTC TTTGGTTTTT GTGT

(SEQ ID NO 101)

Figure 27

AAGGAGCACC ATTTCCCAGT CGATGAACTA GGGAACATAA AGTAGGCATC TGTAGTGGAT ATCTACTTGG

TGAATATGTT TTGTAAATCC TGTCCACCCC GTGGATGGGT AGTCGGCAAA ACGTCGGACT GTCATAAGAA

TTGAAACGCT GGCACACTGT TGGGTCCTGA GGCAACACGT TGTGTTGTCA CCCTGCTTGG TGGTGGGGTG

TGGACTTTGA CTTCTGAATA GTGGTTGCGA GCATCTAAAC ATAGCCTCGC TCGTTTTCGA GTGGGGCTGG

TTTTGCAATT TTA

(SEQ ID NO 102)

Figure 28

AAGGAGCACC ATTTCCCAGT CGGATGAACT AGGGAACATA AAGTAGGCAT CTGTAGTGGG TATCTACTTG
GTGAATATGT TTTGTAAATC CTGTCCACCC CCGTGGATGG GTAGTCGGCA AAACGTCGGA CTGTCATAAG
AATTGAAACG CTGGCACACT GTTGGGTCCT GAGGCAACAC GTTGTGTTGT CACCCTGCTT GGTGGTGGGG
TGTGGACTTT GACTTCTGAA TAGTGGTTGC GAGCATCTAA ACATAGCCTC GCTCGTTTTC GAGTGAGGCT
GGTTTTTGCA ATTTTA

(SEQ ID NO 103)

Figure 29

AAGGAGCACC ACGAAGAGCA CTCCAATTGG TGGGGTGCGA GCCGTGAGGG GTCATCGTCT GTAGTGGACG
AAGACCGGGT GCACGACAAC AAGCTAAGCC AGACACACTA TTGGGTCCTG AGGCAACACC CTCGGGTGCT
GTCCCCCCAT CTTGGTGGTG GGGTGTGGTG TTTGAGAATT GGATAGTGGT TGCGAGCATC AAAATGTATG
CGTTGTCGTT CTCGGCAACG TGTTCTTTTT GTGCAATTTA TTCTTTGGTT TTTGTAGTGT TTGT

(SEQ ID NO 104)

Figure 30

AAGGAGCACC ACGAAGAGCA CTCCAATTGG TGGGGTGCGA GCCGNGAGGG GTCATCGTCT GTAGTGGACG

AAGACTGGGT GCACGACAAC AAAGCAAGCC AGACACACTA TTGGGTCCTG AGGCAACACC CTCGGGTGCT

GCCCCTCCAT CTTGGTGGTG GGGTGTGGTG TTTGAGAACT GGATAGTGGT TGCGAGCATC AAAAATGTAT

GCGTTGTCGT TCGCGACAAC GTGTTCTTTT TGTGCAATTT TAATTCTTTT GGTTTTGGTA GTGTTTGT

(SEQ ID NO 105)

Figure 31

AAGGAGCACC ACGAGAAGCA CTCCAATTGG TGGGGTGCAA GCCGTGAGGG GTCATCGTCT GTAGTGGACG

AAGACCGGGT GCACGACAAC AAGCAAAGCC AGACACACTA TTGGGGTCCTG AGGCAACACC CTCGGGTGCT

GTCCCCCCAT CTTGGTGGTG GGGTGTGGTG TTTGAGAACT GGATAGTGGT TGCGAGCATC AAAATGTATG

CGTTGTCGTT CGCGGCAACG TGTTCTTTTT GTGCAATTTT TATTCTTTGG TTTTTGTAGT GTTTGT

(SEQ ID NO 106)

Figure 32

AAGGAGCACC ACGAAAAGCA CCCCAATTGG TGGGGTGCAA GCCGTGAGGG GTTCCCGCCT GTAGTGGGCG
GGGCCGGGTG CGCAACAGCA AATGATTGCC AGACACACTA TTGGGCCCTG AGGCAACACT CGGATCGATT
GAGTGCTTGT CCCCCCATCT TGGTGGTCGG GTGTGGTGTT TGAGAACTGG ATAGTGGTTG CGAGCATCTA
AATGAACGCA CTGCCGATGG TGGTGTGTTC GTTTTGTGTA ATTTTATTCT TTGGTTTTTG TGTTTGT

(SEQ ID NO 107)

Figure 33

AAGGAGCACC ACGAAAAGCA CTCCAATTGG TGGGGTGCGA GCCGTNAGGG GTTCTCGTCT GTAGTGGATG

GCAGCCGGGT GCACANCAGC AAATGATTGC CAGACACACT ATTGGGCCCT GAGACAACAC TCGGTCAGTC

CGTGTGGAGT CCCTCCATCT TGGTGGTGGG GTGTGGNGTT TGAGTATTGG ATAGTGGTTG CGANCATCTA

GATGAACGCG TAGTCCTCNG TGGCTGACGT GTTCATCAAA ATGTGTAATT TCTTTTANGG GTTTNGGTGT

CT

(SEQ ID NO 108)

Figure 34

AAGGAGCACC ACGAAAAGCA CTCCAATTGG TGGGGTGCGA GCCGNGAGGG GTTCTCGCCT GTAGTGGNCG
AGGGCCGGAT GCACAACAAC ACATGATTGC CAGACACACT ATTGGGCCCT GANACAACAC TCGGCCAGTC
CGTGTGGTGT CCCTCCATCT TGGTGGTGGG GTGTGGTGTT TGAGTATNGG ATAGTNGTTG NGANCATCTA
AACGGCTGCG TNGNCNNGAA CGGTGGCGTG TTCGNTAAAA TGTGTAATTT CTTTTNNGGT TTGGGTGTNT

(SEQ ID NO 109)

Figure 35

AAGGAGCACC ACGAAAAGCA CTCCAATTGG TGGGGTGCGA GCCGTGAGGG GTTCTCGCCT GTAGTGGGCG

ANGGCCGGGT GCACAACAAC AAATGATTGC CAGACACACT ATTGGGGCCCT GAGACAACAC TCGGCCAGTC

CGTGTGGTGT CCCNCCATCT TGGTGGTGGG GTGTGGTGTT TGAGTATTGG ATAGTGGTTG CGAGCATCTA

AANGGNTGCG TTGCCGNNAN CNGTGGCGTN TTCGNTAAAA TGTGTAANTT CTTTTTNGGT TTGTGTGTGT

(SEQ ID NO 110)

Figure 36

ATCGAAGATC CCGGCTTCTT CATAAGCTCC CACACGAATT GCTTGATTCA CTGGTTAGAC GATTGGGTCT
GTAGCTCAGT TGGTTAGAGC GCACCCCTGA TAAGGGTGAG GTCGGCAGTT CGAATCTGCC CAGACCCACC
AATTGTTGGT GTGCTGCGTG ATCCGATACG GGGCCATAGC TCAGCTGGGA GAGCGCCTGC TTTGCACGCA
GGAGGTCAGG AGTTCGATCC TCCTTGGCTC CACCATCTAA AACAATCGTC GAAAGCTCAG AAATGAATGT
TCGTGGATGA ACATTGATTT CTGGTCTTTG CACCAGAACT GTTCTTTAAA AATTCGGGTA TGTGATAGAA
GTAAGACTGA ATGATCTCTT TCACTGGTGA TCATTCAAGT CAAGGTAAAA TTTGCGAGTT CAAGCGCGAA
TTTTCGGCGA ATGTCGTCTT CACAGTATAA CCAGATTGCT TGGGGTTATA T

(SEQ ID NO 111)

Figure 37

ATCGAAGACA TCAGCTTCTT CATAAGTATC CACACGAATT GCTTGATTCA TAGTCGAACG AATGCTGTAA
CGCGACCCGT GTTATAGGTC TGTAGCTCAG TTGGTTAGAG CGCACCCCTG ATAAGGGTGA GGTCGGCAGT
TCAAATCTGC CCAGACCTAC CAATTGCTTG GTCGAGAAGA ATACGGGGCC ATAGCTCAGC TGGGAGAGCG
CCTGCCTTGC ACGCAGGAGG TCAGCGGTTC GATCCCGCTT GGCTCCACCA CTCTCTCGTG TTGCGGTGAG
TGTTAAAGAG TTCAGAAATG ATGCCGCTTC AGGTTTGTCC TGTTGAGTGC TGATTTCTGG TCTTTTGACC
GGTACGAAAA TCGTTCTTTA AAAATTTGGA TATGTGATAG AAGTGACTGA TTAATTGCTT TCACTGGCAA
TTGATCTGGT CAAGGTAAAA TTTGTAGTTC TCAAGACGCA AATTTTCGGC GAATGTCGTC TTCACGATTG
AGACAGTAAC CAGATTGCTT GGGGTTATAT

(SEQ ID NO 112)

Figure 38

ATCGAAGACA CCGGCTTCGT CATAAGCTCC CACACGAATT GCTTGATTCA CTTGCGAAAG GCGATTGGGT
TTAGACCCGA GAGTAACGAT TGGGTCTGTA GCTCAGTTGG TTAGAGCGCA CCCCTGATAA GGGTGAGGTC
GGCAGTTCGA ATCTGCCCAG ACCCACCAAT CGAAGGGGCC ATAGCTCAGC TGGGAGAGCG CCTGCTTTGC
ACGCAGGAGG TCAGCGGTTC GATCCCGCTT GGCTCCACCA TTAACTCTAG TCGCCGAAAG CTCAGAAATG
AGTGTTTACC AGGATGAGGT TGATTGCCTG GGTTGAACAT TGATTTCTGG ACTTTGCGCC AGAACTGTTC
TTTAAAAATT TGGGTATGTG ATAGAAGTAG ACCGATGTGT TGCTTTCACT GGCAGCATGT CGCGTCAAGG
TAAAATTTGC GTGTTCTCTA TGCAAATTTT CGGCGAATGT CGTCTTCACG TTATAGACAG TAACCAGATT
GCTTGGGGTT ATAT

(SEQ ID NO 113)

Figure 39

ATCGAAGACT TCAGCTTCTT CATAAGTTCC CACACGAATT GCTTGATTCA CTTGCGAAAA GCGATTGGGT
TGAGACCCGA GAGTGACGAT TGGGTCTGTA GCTCAGTTGG TTAGAGCGCA CCCCTGATAA GGGTGAGGTC
GGCAGTTCGA ATCTGCCCAG ACCCACCAAT TGTCGGGATG GCCAGTGTCA AATGGGGCCA TAGCTCAGCT
GGGAGAGCGC CTGCTTTGCA CGCAGGAGGT CAGGAGTTCG ATCCTCCTTG GCTCCACCAT CAACTCACGA
TCGCTGAAAG CTCAGAAATG AACATTGGTA GTTCAATGTT GATTTCTGGT CTTTGCGCCA GAACTGTTCT
TTAAAAATTT GGGTATGTGA TAGAAGTGAC TAACAGCGTG TTTCACTGCA CGTTGTTAAT CAAGGCAAAA
TTTGCGAGTT CAAGCGCGAA TTTTCGGCGA ATGTCGTCTT CACGTTACGA ATCTATAACC AGATTGCTTG
GGGTTATAT

(SEQ ID NO 114)

Figure 40

ATCGACGACA TCAGCTGTCT CATAAGCTCC CACACGAATT GCTTGATTCA TTGAAGAAGA CGATTAGGTT
AGCAACCTTC GATTGGGTCT GTAGCTCAGT TGGTTAGAGC GCACCCCTGA TAAGGGTGAG GTCGGCAGTT
CGAATCTGCC CAGACCCACC AATTTGCTGG GGCCATAGCT CAGCTGGGAG AGCGCCTGCC TTGCACGCAG
GAGGTCAGCG GTTCGATCCC GCTTGGCTCC ACCACCCCGC TTGCCAGTTT GTCAAAGCTT AGAAATGAAT
ATTCGCGTCG AATATTGATT TCTGAACTTT ATCAGAATCG TTCTTTAAAA ATTTGGGTAT GTGATAGAAA
GATAGACTGG ACAGCACTTT CACTGGTGTG TGTTCAGGCT AAGGTAAAAT TTGTGAGTAA TTACAAGTTT
TCGGCGAATG TTGTCTTCAC AGTATAACCA GATTGCTTGG GGTTTATAT

(SEQ ID NO 115)

Figure 41

TAAGGAAAAG GAAACCTGTG AGTTTTCGTT CTTCTCTGTT TGTTCAGTTT TGAGAGGTTA ATTCTTCTCT
ATACTGTTTG TTCTTTGAAA ACTAGATAAG AAAGTTAGTA AAGTTAGCAT AAATAGGTAA CTATTTATGA
CACAAGTAAC CGAGAATCAT CTGAAAGTGA ATCTTTCATC TGATTGGAAG TATCATCGCT GATACGAAAA
ATCAGAAAAA CAACCTTTAC TTCATCGAAG TAAATT

(SEQ ID NO 116)

Figure 42

CTAAGGAAAA GGAAACCTGT GAGTTTTCGT TCTTCTCTAT TTGTTCAGTT TTGAGAGGTT AGTACTTCTC
AGTATGTTTG TTCTTTGAAA ACTAGATAAG AAAGTTAGTA AAGTTAGCAT AGATAATTTA TTATTTATGA
CACAAGTAAC CGAGAATCAT CTGAAAGTGA ATCTTTCATC TGATTGGAAG TATCATCGCT GATACGGAAA
ATCAGAAAAA CAACCTTTAC TTCGTAGAAG TAAATT

(SEQ ID NO 117)

Figure 43

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TAAGGAAAAG GAACCTGTG AGTTTTCGTT CTTCTCTGTT TGTTCAGTTT TGAGAGGTTA TTACTTCTCT
GTATGTTTGT TCTTTGAAA CTAGATAAGA AAGTTAGTAA AGTTAGCATA AGTAGTGTAA CTATTTATGA
CACAAGTAAC CGAGAATCAT CTGAAAGTGA ATCTTTCATC TAATTCGACG TATCATCGCT GATACAGACA
ATTAGAAAAA CAACCTTTAC TTCGACGAAG TAAATT
```

(SEQ ID NO 118)

Figure 44

GGCCTATAGC TCAGCTGGTT AGAGCGCACG CCTGATAAGC GTGAGGTCGA TGGTTCGAGT CCATTTAGGC
CCACTTTTTC TTTCTGACAG AAGAAACACT GTATAACCTA TTTAAGGGGC CTTAGCTCAG CTGGGAGAGC
GCCTGCTTTG CACGCAGGAG GTCAGCGGTT CGATCCCGCT AGGCTCCACC AAAATTGTTC TTTGAAAACT
AGATAAGAAA GTTAGTAAAG TTAGCATAAA TAGGTAACTA TTTATGACAC AAGTAACCGA GAATCATCTG
AAAGTGAATC TTTCATCTGA TTGGAAGTAT CATCGCTGAT ACGAAAAATC AGAAAAACAA CCTTTACTTC
ATCGAAGTAA ATT

(SEQ ID NO 119)

Figure 45

TAAGGAAAAG GAAACCTGTG AGTTTTCGTT CTTCTCTATT TGTTCAGTTT TGAGAGGTTA CTCTCTTTTA
TGTCAGATAA AGTATGCAAG GCACTATGCT TGAAGCATCG CGCCACTACA TTTTTGACGG GCCTATAGCT
CAGCTGGTTA GAGCGCACGC CTGATAAGCG TGAGGTCGAT GGTTCGAGTC CATTTAGGCC CACTTTTTCT
TTCTGACATA AGAAATACAA ATAATCATAC CCTTTTACGG GGCCTTAGCT CAGCTGGGAG AGCGCCTGCT
TTGCACGCAG GAGGTCAGCG GTTCGATCCC GCTAGGCTCC ACCAAAATTG TTCTTTGAAA ACTAGATAAG
AAAGTTAGTA AAGTTAGCAT AGATAATTTA TTATTTATGA CACAAGTAAC CGAGAATCAT CTGAAAGTGA
ATCTTTCATC TGATTGGAAG TATCATCGCT GATACGGAAA ATCAGAAAAA CAACCTTTAC TTCGTAGAAG
TAAATT

(SEQ ID NO 120)

Figure 46

TAAGGAAAAG GAAACCTGTN AGTTTNCGTN CTTCTCTGTT TGTNCAGTTT TNAGAGGTTA CTCTCTTTNA
TGTCAGATAA AGTACGCACG GCACGTTGCC TTGGGCAAAG AGCCACTACA TTATTGACGG GCCTATAGCT
CAGCTGGTTA GAGCGCACGC CTGATAAGCG TGAGGTCGAT GGTTCGAGTC CATTTAGGCC CACTTTTTCT
TTCTGACAGA AGAAATCATT TGCACATCCT ATTAATAAGG GNCCTTAGCT CAGCTGGGAG AGCGCCTGCT
TTGCACGCAG GAGGTCAGCG GTTCGATCCC GCTAGGCTCC ACCCAAAATT GTTCTTTGAA AACTAGATAA
GAAAGTTAGT AAAGTTAGCA TAAGTAGTAT AACTATTTAT GACACAAGTA ACCGAGAATC ATCTGAAAGT
GAATCTTTCA TCTAATTCGA CGTATCATCG CTGATACAGA CAATTNGAAA AACAACCTTT ACTTCGACGA
AGTAAATT

(SEQ ID NO 121)

Figure 47

TAAGGATAAG GATAACTGTC TTAGGACGGT TTGACTAGGT TGGGCAAGCG TTTTTTTAAT CTTGTATTCT
ATTCCTTTTG CATTGTTAAG CGTTGTTTCC AAAACATTTA GTTTACGATC AAGTATGTTA TGTAAATAAT
ATGGTAACAA GTAAATTCAC ATATAATAAT AGACGTTTAA GAATATATGT CTTTAGGTGA TGTTAACTTG
CATGGATCAA TAATTTACA

(SEQ ID NO 122)

Figure 48

TAAGGATAAG GAAGAAGCCT GAGAAGGTTT CTGACTAGGT TGGGCAAGCA TTTATATGTA AGAGCAAGCA
TTCTATTTCA TTTGTGTTGT TAAGAGTAGC GTGGTGAGGA CGAGACATAT AGTTTGTGAT CAAGTATGTT
ATTGTAAAGA AATAATCATG GTAACAAGTA TATTTCACGC ATAATAATAG ACGTTTAAGA GTATTTGTCT
TTTAGGTGAA GTGCTTGCAT GGATCTATAG AAATTACA

(SEQ ID NO 123)

Figure 49

CAAATGGAGT TTTTATTTTT TATTTATCTT AAACACCCAT TAATTTTTTC GGTGTTAAAA CCCAAATCAA
TGTTTGGTCT CACAACTAAC ACATTTGGTC AGTTTGTATC CAGTTCTGAA AGAATGTTTT TGAACAGTTC
TTTCAAAACT GAAAACGACA ATCTTTCTAG TTCCAAAAAT AAATACCAAA GGATCAATAC AATAAGTTAC
TAAGGGCTTA TGGT

(SEQ ID NO 124)

Figure 50

CTAATGAAGT TTTTTACTTT TTCTTTTTCAT CTTTAATAAA GATAAATACT AAACAAAACA TCAAAATCCA
TTTATTTATC GGTGGTAAAT TAAACCCAAA TCCCTGTTTG GTCTCACAAC TAACATATTT GGTCAGATTG
TATCCAGTTC TGAAAGAACA TTTCCGCTTC TTTCAAAACT GAAACGACA ATCTTTCTAG TTCCAAATAA
ATACCAAAGG ATCAATACAA TAAGTTACTA AGGGCTTATG GT

(SEQ ID NO 125)

Figure 51

AACGAAAGAT TGACGATTGG TAAGAATCCA CAACAAGTTG TTCTTCATAG ATGTATCTGA GGGTCTGTAG
CTCAGTTGGT TAGAGCACAC GCTTGATAAG CGTGGGGTCA CAAGTTCAAG TCTTGTCAGA CCCACCATGA
CTTTGACTGG TTGAAGTTAT AGATAAAAGA TACATGATTG ATGATGTAAG CTGGGGACTT AGCTTAGTTG
GTAGAGCGCC TGCTTTGCAC GCAGGAGGTC AGGAGTTCGA CTCTCCTAGT CTCCACCAGA ACTTAAGATA
AGTTCGGATT ACAGAAATTA GTAAATAAAG ATTGAGATCT TGGTTTATTA ACTTCTGTGA TTTCATTATC
ACGGTAATTA GTGTGATCTG ACGAAGACAC ATTAACTCAT TAACAGATTG GCAAAATTGA GTCTGAAATA
AATTGTTCAC TCAAGAGTTT AGGTTAAGCA ATTAATCTAG ATGAATTGAG AACTAGCAAA TTAACTGAAT
CAAGCGTTTT GCTATGTGAA TTTAGATTGA AGCTGTACAG TGCTTAAGTG CACAGTGCTC TAAACTGAAA
TGTTGAAGTT ACTAACTTGT AGGTAACATC GACTGTTTGG GGTTGTAT

(SEQ ID NO 126)

Figure 52

AACGAAAGAT TGACGATTGG TAAGAATCCA CGACAAGTTG TTCTTCATAG ATGTATCTGA GGGTCTGTAG
CTCAGTTGGT TAGAGCACAC GCTTGATAAG CGTGGGGTCA CAAGTTCAAG TCTTGTCAGA CCCACCATGA
CTTTGACTGG TTGAAGTTAT AGAAAAGAAG ATACATAACT GATGATGTAA GCTGGGGACT TAGCTTAGTT
GGTAGAGCGC CTGCTTTGCA CGCAGGAGGT CAGGAGTTCG ACTCTCCTAG TCTCCACCA

(SEQ ID NO 127)

Figure 53

AACGAAAGAT TGATGGCCGG TAAGAATCCA CAACAAGTTG TTCTTCGAAG ATGTATCTGA GGGTCTGTAG
CTCAGTTGGT TAGAGCACAC GCTTGATAAG CGTGGGGGTCA CAAGTTCAAG TCTTGTCAGA CCCACCAAAT
CTGAAAGATA TGTCGTTCAT TATGATTAAA GCTGGGGACT TAGCTTAGTT GGTAGAGCGC CTGCTTTGCA
CGCAGGAGGT CAGGAGTTCG ACTCTCCTAG TCTCCACCA

(SEQ ID NO 128)

Figure 54

AACGAAAGAT TGACGATTGG TAAGAATCCA CAACAAGTTG TTCTTCATGA CGATGTATCT GAGGGTCTGT
AGCTCAGTTG GTTAGAGCAC ACGCTTGATA AGCGTGGGGT CACAAGTTCA AGTCTTGTCA GACCCACCAA
ATCTGACTAA CAAGCATTAT TAAATGCTGA ATACAGAAAA ACAGAGACAT TGACTTATTG ATAAGCTGGG
GACTTAGCTT AGTTGGTAGA GCGCCTGCTT TGCACGCAGG AGGTCAGGAG TTCGACTCTC CTAGTCTCCA
CCA

(SEQ ID NO 129)

Figure 55

AACGAAAGAT TGGTGACCGG TAAGAATCCA CAACAAGTTG TTCTTCGAAG ATGTATCTGA GGGTCTGTAG
CTCAGTTGGT TAGAGCACAC GCTTGATAAG CGTGGGGTCA CAAGTTCAAG TCTTGTCAGA CCCACCACTA
CTGACGAAGT GATGAATAAT CACAAGCTGC TAGATGAAAA GATATGTCGT TCATTATGAT TAAAGCTGGG
GACTTAGCTT AGTTGGTAGA GCGCCTGCTT TGCACGCAGG AGGTCAGGAG TTCGACTCTC CTAGTCTCCA
CCA

(SEQ ID NO 130)

Figure 56

TAAGGAAGAT CGAGAATTGG AAAGAGGTCG GATTTATCCG GATGATCCTT CTCCATCTTA TTAGAACATA
GATCGCAGGC CAGTCAGCCT GACGATCGCT TGCAGGCGTG CCGCCTTCGT TTCTCTTTCT TCATTGTTGA
TTGCTCACGG GCCGTACCGC AGCTGACGCT GCTGGCCCTG CGCAGGCGCG GCCCATCAGG GCCGACGGCC
GGTCGGCCTT GCNAAGCTTC GCTTCGGGGT GGATCTGTGG ATCGCGTAGT AGCGTTTGCG TCGGTATCTG
GGCTTGTAGC TCAGTTGGTT AGAGCACACG CTTGATAAGC GTGGGGTCGG AGGTTCAAGT CCTCCCAGGC
CCACCAAGTT ACTTGATGAG GGGCCGTAGC TCAGCTGGGA GAGCACCTGC TTTGCAAGCA GGGGGTCGTC
GGTTCGATCC CGTCCGGCTC CACCATCATG TTGGTGTTGA GACGGATATT GGCAATCAAC AAAAGAAAGA
AACAAGTTTG CGGACTNTTA CGAAAGTCTG CCTGTTCTGT ATGAAATCGT GAAGAGAAGA TGTAATCGGA
TCAACTGAAG AGTTGATGTC GCAAGAAGCT TGCTCAAGCC TTGCATAATG ATTGATGTGT TTAACCGCCA
TCACCGATTG TATCTCGAGA AGCTGGTCTT TCTGCTGATA CTGTTGAAAC GAGCATTTGC AGTCGAATGG
CAACATTCGG CGTCGCATAA TGCGGCTTTA AGAGCTGAGT TTTGATGGAT ATTGGCAATG AGAGTGATCA
AGTGTCTTAA GGGCATTGGT GGATGCCTTG GCATGCAC

(SEQ ID NO 131)

Figure 57

TAAGGAGGAT CGAGAATTGG AAAGAGGCCG GATTTATCCG GATGATCCTT CTCCATCTTA TTAGAACATA
GATCGCAGNC CAGTCAGCCT GACGATCGCT TGCAGGCGTG CCGCCTTCGT TTCTCTTTCT TCATTGTTGA
TTGCTCACGG GCCGTACCGC AGCTGACGCT GCTGGCCCTG CGCAGGCGCG GNCCATCAGG GCCGACGGCC
GGTCGGCCTT GCGAAGCTTC GCTTCGGGGT GGATCTGTGG ATCGCGTAGT AGCGTTTGCG TCGGTATCTG
GGCTTGTAGC TCAGTTGGTT AGAGCACACG CTTGATAAGC GTGGGGTCGG AGGTTCAAGT CCTCCCAGGC
CCACCAAGTT ACTTGATGAG GGGCCGTAGC TCAGCTGGGA GAGCACCTGC TTTGCAAGCA GGGGGTCGTC
GGTTCGATCC CGTCCGGCTC CACCATCATG TTGGTGTTGA GACGGATATT GGCAATCAAC AAAAGAAAGA
AACAAGTTTG CGGACTNTTA CGAAAGTCTG CCTGTTCTGT ATGAAATCGT GAAGAGAAGA TGTAATCGGA
TCAACTGAAG AGTTGATGTC GCAAGAAGCT TGCTCAAGCC TTGCATAATG ATTGATGTGT TTAACCGCCA
TCACCGATTG TATCTCGAGA AGCTGGTCTT TCTGCTGATA CTGTTGAAAC GAGCATTTGC AGTCGAATGG
CAACATTCGG CGTCGCATAA TGCGGCTTTA AGAGCTGAGT TTTGATGGAT ATTGGCAATG AGAGTGATCA
AGTGTCTTAA GGGCATTGGT GGATGCCTTG GCATGCAC

(SEQ ID NO 132)

Figure 58

CCTTAAAGAA CTGTTCTTTG CAGTGCTCAC ACAGATTGTC TGATGAAAAG TAAATAGCAA GGCGTCTTGC
GAAGCAGACT GATACGTCCC CTTCGTCTAG AGGCCCAGGA CACCGCCCTT TCACGGCGGT AACAGGGGTT
CGAATCCCCT AGGGGACGCC ACTTGCGCGG TAATGTGTGA AAGCGTTGCC ATCAGTATCT CAAAACTGAC
TTACGAGTCA CGTTTGAGAT ATTTGCTCTT TAAAAATCTG GATCAAGCTG AAAATTGAAA CACAGAACAA
CGAAAGTTGT TCGTGAGTCT CTCAAATTTT CGCAACACGA TGATGAATCG TAAGAAACAT CTTCGGGTTG
TGA

(SEQ ID NO 133)

Figure 59

CCTTAAAGAA CTGTTCTTTG CAGTGCTCAC ACAGATTGTC TGATGAAAAA CGAGCAGTAA AACCTCTACA

GGCTTGTAGC TCAGGTGGTT AGAGCGCACC CCTGATAAGG GTGAGGTCGG TGGTTCAAGT CCACTCAGGC

CTACCAAATT TTCCCTGAAT ACTGCGTTGT GAAATAACTC ACATACTGAT GTATGCTTCG TTATTCCACG

CCTTGTCTCA GGAAAAATTA TCGGTAAAGA GGTTCTGACT ACACGATGGG GCTATAGCTC AGCTGGGAGA

GCGCCTGCTT TGCACGCAGG AGGTCTGCGG TTCGATCCCG CATAGCTCCA CCATATCGTG AGTGTTTACG

AAAAATACT TCAGAGTGTA CCTGAAACGG TTCACTGCGA AGTTTTGCTC TTTAAAAATC TGGATCAAGC

TGAAAATTGA AACACAGAAC AACGAAAGTT GTTCGTGAGT CTCTCAAATT TTCGCAACAC GATGATGAAT

CGTAAGAAAC ATCTTCGGGT TGTGA

(SEQ ID NO 134)

Figure 60

CCTTAAAGAA GCGTACTTTG CAGTGCTCAC ACAGATTGTC TGATGAAAAG TAAATAGCAA GGCGTCTTGC
GAAGCAGACT GATACGTCCC CTTCGTCTAG AGGCCCAGGA CACCGCCCTT TCACGGCGGT AACAGGGGTT
CGAATCCCCT AGGGGACGCC ACTTGCGCGG TAATGTGTGA AAGCGTTGCC ATCAGTATCT CAAAACTGAC
TTACGAGTCA CGTTTGAGAT ATTTGCTCTT TAAAAATCTG GATCAAGCTG AAAATTGAAA CACAGAACAA
CGAAAGTTGT TCGTGAGTCT CTCAAATTTT CGCAACACGA TGATGAATCG TAAGAAACAT CTTCGGGTTG
TGA

(SEQ ID NO 135)

Figure 61

CCTTAAAGAA CTGTTCTTTG AAGTGCTCAC ACAGATTGTC TGATGAAAAA CGAGCAGTAA AACCTCTACA
GGCTTGTAGC TCAGGTGGTT AGAGCGCACC CCTGATAAGG GTGAGGTCGG TGGTTCAAGT CCACTCAGGC
CTACCAAATT TTCCCTGAAT ACTGCGTTGT GAAATAACTC ACATACTGAT GTATGCTTCG TTATTCCACG
CCTTGTCTCA GGAAAAATTA TCGGTAAAGA GGTTCTGACT ACACGATGGG GCTATAGCTC AGCTGGGAGA
GCGCCTGCTT TGCACGCAGG AGGTCTGCGG TTCGATCCCG CATAGCTCCA CCATCTCGTG AGTGTTTACG
AAAAAATACT TCAGAGTGTA CCTGAAAGGG TTCACTGCGA AGTTTTGCTC TTTAAAAATC TGGATCAAGC
TGAAAATTGA AACACAGAAC AACGAAAGTT GTTCGTGAGT CTCTCAAATT TTCGCAACAC G

(SEQ ID NO 136)

Figure 62

CCTTAAAGAA GCGTACTTTG AAGTGCTCAC ACAGATTGTC TGATGAAAAG TGAATAGCAA GGCGTCTTGC
GATTGAGACT TCAGTGTCCC CTTCGTCTAG AGGCCCAGGA CACCGCCCTT TCACGGCGGT AACAGGGGTT
CGAATCCCCT AGGGGACGCC AGCGTTCAAA CTGATGAGGT CAAACCTCCA GGGACGCCAC TTGCTGGTTT
GTGAGTGAAA GTCACCTGCC TTAATATCTC AAAACTGACT TACGAGTCAC GTTTGAGATA TTTGCTCTTT
AAAAATCTGG ATCAAGCTGA AAATTGAAAC ACAGAACAAC GAAAGTTGTT CGTGAGTCTC TCAAATTTTC
GCAACACGAT GATGAATCGT AAGAAACATC TTCGGGTTGT GA

(SEQ ID NO 137)

Figure 63

CCTTAAAGAA ACGGTCTTTG AAGTGCTCAC ACAGATTGTC TGATGAAAAA CGAGCAGTAA AACCTCTACA
GGCTTGTAGC TCAGGTGGTT AGAGCGCACC CCTGATAAGG GTGAGGTCGG TGGTTCAAGT CCACTCAGGC
CTACCAAATT TTCCCTGAAT ACTGCGTTGT GAAATAACTC ACATACTGAT GTATGCTTCG TTATTCCACG
CCTTGTCTCA GGAAAAATTA TCGGTAAAGA GGTTCTGACT ACACGATGGG GCTATAGCTC AGCTGGGAGA
GCGCCTGCTT TGCACGCAGG AGGTCTGCGG TTCGATCCCG CATAGCTCCA CCATCTCGTG AGTGTTTACG
AAAAAATACT TCAGAGTGTA CCTGAAAGGG TTCACTGCGA AGTTTTGCTC TTTAAAAATC TGGATCAAGC
TGAAAATTGA AACACAGAAC AACGAAAGTT GTTCGTGAGT CTCTCAAATT TTCGCAACAC GATGATGAAT
CGTAAGAAAC ATCTTCGGGT TGTGA

(SEQ ID NO 138)

Figure 64

CTAAGGATAT ATTCGGAACA TCTTCTTCGG AAGATGCGGA ATAACGTGAC ATATTGTATT CAGTTTTGAA
TGTTTATTTA ACATTCAAAT ATTTTTTGGT TAAAGTGATA TTGCTTTTGA AAATAAAGCA GTATGCGAGC
GCTTGACTAA AAAAAATTGT ACATTGAAAA CTAGATAAGT AAGTAAAATA TAGATTTTAC CAAGCAAAAC
CGAGTGAATA AAGAGTTTTA AATAAGCTTG AATTCATAAG AAATAATCGC TAGTGTTCGA AAGAACACTC
ACAAGATTAA TAACGCGTTT AAATCTTTTT ATAAAAGAAC GTAACTTCAT GTTAACGTTT GACTTATAAA
AATGGTGGAA ACATA

(SEQ ID NO 139)

Figure 65

CTAAGGATAT ATTCGGAACA TCTTCTTCAG AAGATGCGGA ATAACGTGAC ATATTGTATT CAGTTTTGAA
TGTTTATTTA ACATTCAAAT ATTTTTTGGT TAAAGTGATA TTGCTTATGC GAGCNCTTGA CAATCTATTC
TTTTTAAAGA AAGCGGTTGT CAGACAATGC ATTAAGAAAA ATTAAAGCGG AGTTTACTTT TGTAAATGAG
CATTTGATTT TTTGAAAATA AAGCAGTATG CGAGCGCTTG ACTAAAAAGA AATTGTACAT TGAAAACTAG
ATAAGTAAGT AAAATATAGA TTTTACCAAG CAAAACCGAG TGAATAAAGA GTTTTAAATA AGCTTGAATT
CATAAGAAAT AATCGCTAGT GTTCGAAAGA ACACTCACAA GATTAATAAC GCGTTTAAAT CTTTTTATAA
AAGAAAACGT TTAGCAGACA ATGAGTTAAA TTATTTTAAA GCAGAGTTTA CTTATGTAAA TGAGCATTTA
AAATAATGAA AACGAAGCCG TATGTGAGCA TTTGACTTAT AAAAATGGTG GAAACATA

(SEQ ID NO 140)

Figure 66

CTAAGGATAT ATTCGGAACA TCTTCTTCAG AAGATGCGGA ATAACGTGAC ATATTGTATT CAGTTTTGAA
TGTTTATTTA ACATTCAAAT ATTTTTTTGGT TAAAGTGATA TTGCTTATGC GAGCGCTTGA CAATCTATTC
TTTTTAAAGA AAGCGGTTGT CAGACAATGC ATTAAGAAAA ATTAAAGCGG AGTTTACTTT TGTAAATGAG
CATTTGATTT TTTGAAAATA AAGCAGTATG CGAGCGCTTG ACTAAAAANGA AATTGTACAT TGAAAACTAG
ATAAGTAAGT AAAATATAGA TTTTACCAAG CAAAACCGAG TGAATAAAGA GTTTTGAATA AGCTTGAATT
CATAAGAAAT AATCGCTAGT GTTCGAAAGA ACACTCACAA GATTAATAAC GCGTTTAAAT CTTTTTATAA
AAGAACGTAA CTTCATGTTA ACGTTTGACT TATAAAAATG GTGGAAACAT A

(SEQ ID NO 141)

Figure 67

CTAAGGATAT ATTCGGAACA TCTTCTTCAG AAGATGCGGA ATAACGTGAC ATATTGTATT CAGNTTTGAA
TGTTTATTTA ACATTCAAAA AATGGGCCTA TAGCTCAGCT GGTTAGAGCG CACGCCTGAT AAGCGTGAGG
TCGGTGGTTC GAGTCCACTT AGGCCCACCA TTATTTGTAC ATTGAAAACT AGATAAGTAA GTAAAATATA
GATTTTACCA AGCAAAACCG AGTGAATAAA GAGTTTTAAA TAAGCTTGAA TTCATAAGAA ATAATCGCTA
GTGTTCGAAA GAACACTCAC AAGATTAATA ACGCGTTTAA ATCTTTTTTAT AAAAGAACGT AACTTCATGT
TAACGTTTGA CTTATAAAAA TGGTGGAAAC ATA

(SEQ ID NO 142)

Figure 68

CTAAGGATAT ATTCGGAACA TCTTCYTCAG AAGATGCGGA ATAATGTGAC ATATTGTATT CAGTTTTGAA
TGTTTATTTA ACATTCAAAT ATTTTTTTGGT TAAAGTGATA TTGCTTTATGC GAGCGCTTGA CTAAAAAGAA
ATTGTACATT GAAAACTAGA TAAGTAAGTA AAANTATAGA TTTTTACCAAG CAAAACCGAG TGAATAAAGA
GTTTTAAATA AGCTTGAATT CATAAGAAAT AATCGCTAGT GTTCGAAAGA ACACTCACAA GATTAATAAC
GCGTTTAAAT CTTTTTTATAA AAGAACGTAA CTTCATGTTA ACGTTTGACT TATAAAAATG GTGGAAACAT
A

(SEQ ID NO 143)

Figure 69

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CTAAGGATAT ATTCGGAACA TCTTCTACGA AGATGAGGGA ATAACGTGAC ATATTGTATT CAGTTTTGAA
TGTTTATTAA CATTCATTTG TACATTGAAA ACTAGATAAG TAAGTAAGAT TTTACCAAGC AAAACCGAGT
GAATAGAGTT TTAAATAAGC TTGAATTCAT AAATAATCGC TAGTGTTCGA AAGACNTCCA CAAGATTAAT
AACTAGTTTT AGCTATTTAT TTTGAATAAC AATTCAAAAT ATGGTGGGAC ATA
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(SEQ ID NO 144)

Figure 70

AAGGATAAGG AACTGCACAT TGGTCTTGTT TAGTCTTGAG AGGTCTTGTG GGGCCTTAGC TCAGCTGGGA
GAGCGCCTGC TTTGCACGCA GGAGGTCAGC GGTTCGATCC CGCTAGGCTC CATTGGTGAG AGATCACCAA
GTAATGCACA TTGAAAATTG AATATCTATA TCAAATAGTA ACAAGAAAAT AAACCGAAAA CGCTGTAGTA
TTAATAAAGA GTTTATGACT GAAAGGTCAA AAAATAA

(SEQ ID NO 145)

Figure 71

AAGGAAATGG AACACGTTTA TCGTCTTATT TAGTTTTGAG AGGTCTTGTG GGGCCTTAGC TCAGCTGGGA
GAGCGCCTGC TTNGCACGCA GGAGGTCAGC GGTTCGATCC CGCTAGGCTC CATCAGGATA CANTCCTACT
AAACTTAATA CAAGTGAAGT TGAACACGCA ACTCACTTCC TAGGAAAATA GACAATCTTC GCTTGTGTGC
AAGGCACACA TGGTCAGATT CCTAATTTTC TACAGAAGTT TCGCTAAAGC GAGCGTTGCT TAGTATCCTA
TATAATAGTC CATNGAAAAT TGAATATCTA TATCAAATTC CACGATCTAG AAATAGATTG TGGAAACGTA
ACAAGAAATT AACCCGNAAA CGCTG

(SEQ ID NO 146)

Figure 72

AAGGATAAGG AACTGCACAT TGGTCTTGTT TAGTCTTGAG AGGTCTTGTG GGGCCTTAGC TCAGCTGGGA
GAGCGCCTGC TTTGCACGCA GGAGGTCAGC GGTTCGATCC CGCTAGGCTC CATTGGTGAG AGATCACCAA
GTAATGCACA TTGAAAATTG AATATCTATA TCAAATAGTA ACAAGAAAAT AAACCGAAAC GCTGTAGTAT
TAAAAGAGTT TATGACTGAA AGGTCAGAAA ATAA

(SEQ ID NO 147)

Figure 73

CTAAGGATAT ATTCGGAACA TCTTCTTACG AAGATGCAGG AATAACATTG ACATATTGTA TTCAGNTGTG
AATGCTCATT GGAGNATTCA TNGCATNATT TGGTNCATTG ACANCTAGAT AAGNAAGTAA AATTTATGAT
TTTACCAAGC AAAACCGAGT GAATTAGAGT TNTNNAACAA GCTTTGATTT CAAAAAGAAA TAATCGCTAG
TGTTCGAAAG AACACTCACA GATTANTAAC ATCTTGGGTT TTCACCCGAC TTGTTCGTNT CGAAAGTCAA
AAAA

(SEQ ID NO 148)

Figure 74

AAGGATAAGG AACTGCGCAT TGGTCTTGTT TAGTCTTGAG AGGTCTTGTG GGGCCTTAGC TCAGCTGGGA
GAGCGCCTGC TTTGCACGCA GGAGGTCAGC GGTTCGATCC CGCTAGGCTC CATTGGTGAG AGATCACCAA
GTAATGCACA TTGAAAATTG AATATCTATA TCAAATAGTA ACAAGAAAAT AAACCGAAAA CGCTGTAGTA
TTAATAAGAG TTTATGACTG AAAGGTCAAA AAATAA

(SEQ ID NO 149)

Figure 75

AAGGATAAGG AACTGCGCAT TGGTCTTGTT TAGTCTTGAG AGGTCTTGTG GGGCCTTAGC TCAGCTGGGA
GAGCGCCTGC TTTGCACGCA GGAGGTCAGC GGTTCGATCC CGCTAGGCTC CATTGGTGAG AGATCACCAA
GTAATGCACA TTGAAAATTG AATATCTATA TCAAATAGTA ACAAGAAAAT AAACCGAAAA CGCTGTAGTA
TTAATAAGAG TTTATGACTG AAAGGTCAGA AAAATAA

(SEQ ID NO 150)

Figure 76

AAGGAAAAGG AACTGCGCAT TGGTCTTGTT TAGTCTTGAG AGGTCTTGTG GGGCCTTAGC TCAGCTGGGA
GAGCGCCTGC TTTGCACGCA GGAGGTCAGC GGTTCGATCC CGCTAGGCTC CATTGGTGAG AGATCACCAA
GTAATGCACA TTGAAAATTG AATATCTATA TCAAATAGTA ACAAGAAAAT AAACCGAAAA CGCTGTAGTA
TTAATAAGAG TTTATGACTG AAAGGTCAGA AAAATAA

(SEQ ID NO 151)

Figure 77

AAGGATAAGG AACTGCGCAT TGGTCTTGTT TAGTCTTGAG AGGTCTTGTG GGGCCTTAGC TCAGCTGGGA
GAGCGCCTGC TTTGCACGCA GGAGGTCAGC GGTTCGATCC CGCTAGGCTC CATTGGTGAG AGATCACCAA
GTAATGCACA TTGAAAATTG AATATCTATA TCAAATAGTA ACAAGAAAAT AAACCGAAAC GCTGTAGTAT
TAAAAGAGTT TATGACTGAA AGGTCAGAAA ATAA

(SEQ ID NO 152)

Figure 78

AAGGATAAGG AACTGCGCAT TGGTCTTGTT TAGTCTTGAG AGGTCTTGTG GGGCCTTAGC TCAGCTGGGA
GAGCGCCTGC TTTGCACGCA GGAGGTCAGC GGTTCGATCC CGCTAGGCTC CATTGGTGAG AGATCACCAA
GTAATGCACA TTGAAAATTG AATATCTATA TCAAATAGTA ACAAGAAAAT AAACCGAAAC GCTGTAGTAT
TAAAAGAGTT TATGACTGAA AGGTCAAAAA TAA

(SEQ ID NO 153)

Figure 79

TAAGGAAGAT CGAGAATTGG AAAGAGGTCG GATTTATCCG GATGATCCTT CTCCATCTTA TTAGAACATA
GATCGCAGGC CAGTCAGCCT GACGATCGCT TGCAGGCGTG CCGCCTTCGT TTCTCTTTCT TCATTGTTGA
TTGCTCACGG GCCGTACCGC AGCTGACGCT GCTGGCCCTG CGCAGGCGCG GCCCATCAGG GCCGAACGGC
CGGTCGGCCT TGCNAAGCTT CGCTTCGGGG TGGATCTGTG GATCGCGTAG TAGCGTTTGC GTCGGTATCT
GGGCTTGTAG CTCAGTTGGT TAGAGCACAC GCTTGATAAG CGTGGGGTCG GAGGTTCAAG TCCTCCCAGG
CCCACCAAGT TACTTGATGA GGGGCCGTAG CTCAGCTGGG AGAGCACCTG CTTTGCAAGC AGGGGGTCGT
CGGTTCGATC CCGTCCGGCT CCACCATCAT GTTGGTGTTG AGACGGATAT TGGCAATCAA CAAAAGAAAG
AAACAAGTTT GCGGACTNTT ACGAAAGTCT GCCTGTTCTG TATGAAATCG TGAAGAGAAG ATGTAATCGG
ATCAACTGAA GAGTTGATGT CGCAAGAAGC TTGCTCAAGC CTTGCATAAT GATTGATGTG TTTAACCGCC
ATCACCGATT GTATCTCGAG AAGCTGGTCT TTCTGCTGAT ACTGTTGAAA CGAGCATTTG CAGTCGAATG
GCAACATTCG GCGTCGCATA ATGCGGCTTT AAGAGCTGAG TTTTGATGGA TATTGGCAAT GAGAGTGATC
AAGTGTCTTA AGGGCATTGG TGGATGCCTT GGCATGCAC

(SEQ ID NO 154)

Figure 80

AAGGAGCACC ACGAGAAACA CTCCAATTGG TGGGGTGTAA GCCGTGAGGG GTTCTCGTCT GTAGTGGACG
GAAGCCGGGT GCACAACAAC AAGCAAGCCA GACACACTAT TGGGTCCTGA GGCAACATCT CTGTTGGTTT
CGGGATGTTG TCCCACCATC TTGGTGGTGG GGTGTGGTGT TTGAGAATTG GATAGTGGTT GCGAGCATCA
ATTGGATGCG CTGCCTTTTG GTGGCGTGTT CTGTTGTGCA ATTTTATTCT TTGGTTTTTG TGTTTAT

(SEQ ID NO 157)

Figure 81

AAGGAGCACC ACGAGAAACA CCCCAATTGG TGGGGTGTGA GCCGTGAGGG GTTCTCGTCT GTAGTGGACG

AGGGCCGGGT GCACAACAAC AGGCAATCGC CGGACACACT ATTGGGCCCT GAGACAACAC TCGGCCGACT

GAGGTCGACG TGGTGTCCCT CCATCTTGGT GGTGGGGTGT GGTGTTTGAG CATTGAATAG TGGTTGCGAG

CATCTAGCCG GATGCGTTCC CCAGTGGTGC GCGTTCGTCA AAAATGTGTA ATTTTTCTTT TGGTTTTTGT

GTTCGT

(SEQ ID NO 158)

Figure 82

AAGGAGCACC ACGAGAAACA CCCCAATTGG TGGGGTGTGA GCCGTGAGGG GTTCTCGTCT GTAGTGGACG
AGGGCCGGGT GCACAACAAC AGGCAATCGC CGGACACACT ATTGGGCCCT GAGACAACAC TCGGCCGACT
GAGGTCGACG TGGTGTCCCT CCATCTTGGT GGTGGGGTGT GGTGTTTGAG CATTGAATAG TGGTTGCGAG
CATCTAGACG GATGCGTTCC CCAGTGGTGC GCGTTCGTCA AAAATGTGTA ATTTTTCTTT TGGTTTTTGT
GTTCGT

(SEQ ID NO 159)

Figure 83

AAGGAGCACC ACGAGAAACA CCCCAATTGG TGGGGTGTGA GCCGTGAGGG GTTCTCGTCT GTAGTGGACG
AGGNNCGGGT NNACAACAAC NGCCAATCGC CGGACACACT ATTGGGNCCT GAGACAACAC TCGGCCGACT
GAGGTCGACG TGGTGTCCCT CCATCTTGGT GGTGGGGTGT GGTGTTTGAG CATTGAATAG TGGTTGCGAG
CATCTAGCCG GATGCGTTCC CCAGTGGTGC GCGTTCGTCA AAAATGTGTA ATTTTTCTNT TGGTTTTTGT
GTTCGT

(SEQ ID NO 160)

Figure 84

AAGGAGCACC ACGAGAAACA CTCCAATTGG TGGAGTGTGA GCCGTGAGGG GTTCTCGTCT GTAGTGGACG

AGGGCCGGGT GCACAACAGC AGACAATCGC CAGACACACT ATTGGGCCCT GAGACAACAC TCGGCCGACT

TTGGTCGACG TGGTGTCCCT CCATCTTGGT GGTGGGGTGT GGTGTTTGAG CATTGAATAG TGGTTGCGAG

CATCTAGACG GATGCGTTGC CCTCGGGCCG CGTGTTCGTC AAAAATGTGT AATTTTTTCT TTTGGTTTTT

GTGTTCGT

(SEQ ID NO 161)

Figure 85

AAGGAGCACC ACGAGAACA CTCCAATTGG TGGAGTGTGA GCCGTGAGGG GTTCTCGTCT GTAGTGGACG

GGAGCCGGGT GCACAACAAC AGGCAATCGC CAGACACACT ATTGGGCCCT GAGACAACAC TCGGCCGGCT

TTGAGTCGAA GTGGTGTCCC TCCATCTTGG TGGTGGGGTG TGGTGTTTGA GCATTGAATA GTGGTTGCGA

GCATCTAGAC GGATGCGTTG CCTTCGGGCC GCGTGTTCGT CAAAATGTG TAATTTTTTC TTTTGGTTTT

TGTGTTCGT

(SEQ ID NO 162)

Figure 86

AGGGAGCACC GNAAACGCAT CCCGCGTGGG GTGTGGGTTC GGCGTGTTGT GGCGTCGGNC CGAGGTGTTG
GGCAGCAGGC AGTAACCNCC GGAACACTGT TGGGTTTTGA GNNAACACCC GTGGTGGTGT TGTGCTCCCC
GTGGTGNCGG GGTGTGGTGT TTGAGTGTTG GATAGTGGTT GCGAGCATCT GGCAAAGACT GTGGTAAGCG
GTTTTTGTTG ANTGTTTTCT GGTGTTTGT

(SEQ ID NO 163)

Figure 87

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AAGGAGCACC ACGAGAAACA CTCCAATTGG TGGGGTGTGA GCCGTGAGGG GTTCTCGTCT GTAGTGGACG
AGGGNCGGGT GCACAACAAC AGNCAATCGC CAGACACACT ATTGGNCCCT GAGACAACAC TCGGCCGACT
TNGGTTGAAG TGGTGTCCCT CCATCTTCGT GGTGGGGTGT GGTGTTTGAG TATTGGATAG TGGTTGCGAG
CATCTAANTG AACGCGTCGC CGNCAACGGT TACGTGTTCG TTTTGTGTAA TTNTTTCTAT TGGTTTTTGT
GTTCGT
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(SEQ ID NO 164)

Figure 88

AAGGAGCACC ACGAGAAACA CTCCAATTGG TGGGGTGTGA GCCGTGAGGG GTTCTCGTCT GTAGTGGACG

AGGGCCGGGT GCACAACAAC AGGCAATCGC CAGACACACT ATTGGNCCCT GAGACAACAC TCGGCCGACT

TTGGTCGAAG TGGTGTCCCC CCATCTTGGT GGTGGGGTGT GGTGTTTGAG TATTGGATAG TGGTTGCGAA

CATCTAAATG AACGCGTTGC CGGCAACGGT TACGTGTTCG TTTTAGTGTA ATTNTTTCTA ATGGTTTTTG

TGTTCGT

(SEQ ID NO 165)

Figure 89

AAGGAGCACC ACGAGACCTG GGCCGGCCCC GCAGATCGCG GGATCAGCTG AGCTTTCAGG CGATTCGTTG

GATGGCCTCG CACCTGTAGT GGGTGGGGGT CTGGTGCACT CAACAAACTT GGCGTGGGAT GCGGGAAAGC

ATCTGCGGAA AATCATCAGA CACACTATTG GGCTTTGAGA CAACAGGCCC GCAGNCCTGN CCCGTTGGGG

GCAGNGGGTG TGTTGTTGCC TCACTTTGGT GGTGGGGGTG GTGTTTGATT TGTGGATAGT GGTTGCGAGC

ATCTAGCGCG CAGAATGTGT GGTCTCACTC CTTGTGGGTG GGGCCTGGTT TTGTGTGCGA TTGATGTGCA

ATTTCTTTTG AAACTCATTT TTTGGTTTTT GTGTTGT

(SEQ ID NO 166)

Figure 90

AAGGAGCACC ACGAAAAACT CCCCAATTGG TGGGGTGTAA GCCGTGAGGG GTTCCCGTCT GTAGTGGACG

GGGGCCGGGT GCGCAACAGC AAGCGAAACG CCGGACACAC TATTGGGTCC TGAGGCAACA CTCGGGTTTG

TCCCCCTCAG GGATTTTCTG GGTGTTGTCC CACCATCTTG GTGGTGGGGT GTGGTGTTTG AGAATTGGAT

AGTGGTTGCG AGCATCAAAT GGATGCGTTG CCCCTACGGG TAGCGTGTTC TTTTGTGCAA TTTTATTCNT

TGGTTTTTGT GTTTGT

(SEQ ID NO 167)

Figure 91

AAGGAGCACC ACGAGAAGCA CTCCAACTGG TGGGGTGCAA GCCGTGAGGG GTTCTCGTCT GTAGTGGACG

AGAGCCGGGT GCGCGACAAC GAACGAGCCA GACACACTAT TGGGTCCTGA GGCAACACTC GGGCTTGGCC

AGAGCTGTTG TCCCACCATC TTGGTGGTGG GGTGTGGTGT TTGAGAATTG GATAGTGGTT GCGAGCATCA

AATGGATGCG TTGCCCCCTAC GGGTGGCGTG TTCTTTTTGTG CAATTTTTATT CTTTGGTTTTT TGTGTTTGT

(SEQ ID NO 168)

Figure 92

AAGGAGCACC ACGAAAAACA CCCCAACTGG TGGGGTGTAA GCCGTGAGGG GCTCCCGTCT GTAGTAGACG

GGCGCCGGGT GCGCAACAGC AAGCGAGCCA GACACACTAT TGGGTCCTGA GGCAACACTC GGGCTTGTCT

TGGACTCGTC CAAGAGTGTT GTCCCACCAT CTTGGTGGTG GGGTGTGGTG TTTGAGAATT GGATAGTGGT

TGCGAGCATC ANCTGGATGC GTTGCCCCCA GGGGTAGCGT GTTCTTTTGT GCAATTNTAT TCNNTGGTTT

TTGTGTTAGT

(SEQ ID NO 169)

Figure 93

AAGGAGCACC ACGAAAAACA CTCCGCATCC GGTGGGGGTGT GAGCCGTGAG GGAGCCCGTG CCTGTAGTGG

GTGTGGGTTG CGTGCGCGAC AACAAATGGG AAAAATCGCT GGGCACACTA TTGGGCTTTG AGGCAACACC

TGGTTTGTTT TGGGTGGTGT CGCTCCATCT TGGTGGTGGG GTGTGGTGTT TGAGTTGTGG ATAGTGGTTG

CGAGCATCTA AGCAAAAGCT GTTGTTTTGAC GGTTTTTGTC GAGTGTTGTG TGTGT

(SEQ ID NO 170)

Figure 94

AAGGAGCACC ACGAAAAACA CTCCAATTGG TGGGGTGTAA GCCGTGAGGG GTTCTCATCT GTAGTGGACG
AGAGCCGGGT GCACAACAGC AAATGAATCG CCAGACACAC TGTTGGGTCC TGAGGCAACA CTCAGGCTTG
TCCCATGTTG GGCTTGATCG GGTGCTGTCC CCCCATCTTG GTGGTGGGGT GTGGTGTTTG AGTATTGGAT
AGTGGTTGCG AGCATCTAAA TGGATACGTT GCCAGTAATG GTGGCGTATT CATTGAAAAT GTGTAATTTT
CTTCTTTGGT TTTGTGTGT

(SEQ ID NO 171)

Figure 95

AAGGAGCACC ACGAAAAACA CTCCAATTGG TGGGGTGTAA GCCGTGAGGG GTTCTCATCT GTAGTGGACG

AGAGCCGGGT GCACAACAGC AAATGAATCG CCAGACACAC TGTTGGGTCC TGAGGCAACA CTCAGGCTTG

TCCCATGTTG GGCTTGATCG GGTGCTGTCC CCCCATCTTG GTGGTGGGGT GTGGTGTTTG AGTATTGGAT

AGTGGTTGCG AGCATCTAAA TGGATACGTT GCCAGTAATG GTGGCGTGTT CATTGAAAAT GTGTAATTTT

CTTCTTTGGT TTTGTGTGT

(SEQ ID NO 172)

Figure 96

AAGGAGCACC ACGAAAAACA CTCCAATTGG TGGGGTGTAA GCCGTGAGGG GTTCTCATCT GTAGTGGACG

AGAGCCGGGT GCACAACAGC AAATGAATCG CCAGACACAC TGTTGGGTCC TGAGGCAACA CTCAGGCTTG

TCCCATGTTG GGCTTGATCG GGTGCTGTCC CCCCATCTTG GTGGTGGGGT GTGGTGTTTG AGTATTGGAT

AGTGGTTGCG AGCATCTAAA TGGANACGTT GCCAGTAATG GTGGCGTGTT CATTGAAAAT GTGTAATTTT

CTTCTTTGGT TTTGTGTGT

(SEQ ID NO 173)

Figure 97

AAGGAGCACC ATTTCTCAGT CGAATGAACT GAGAACATAA AGCGAGTATC TGTAGTGGAT ACATGCTTGG

TGAATATGTT TTATAAATCC TGTCCACCCC GTGGATAGGT AGTCGGCAAA ACGTCGGACT GTCATAAGAA

TTGAAACGCT GGCACACTGT TGGGTCCTGA GGCAACACAT TGTGTTGTCA CCCTGCTTGG TGGTGGGGTG

TGGTCCTTGA CTTATGGATA GTGGTTGCGA GCATCTAAAC ATAGCCTCGC TCGTTTTCGA GTGAGGCTGG

TTTTTGCAAT TTTATTAGCT

(SEQ ID NO 174)

Figure 98

CCTAATGATA TTGATTCGCG TGAAGTGCTC ACACAGATTG TCTGATGAAA AAGTAACGAG CAGAAATACC
TTTATAGGCT TGTAGCTCAG GTGGTTAGAG CGCACCCCTG ATAAGGGTGA GGTCGGTGGT TCAAGTCCAC
TCAGGCCTAC CACTTCTCGA AGTGGAAAAG GTACTGCACG TGACTGTATG GGGCTATAGC TCAGCTGGGA
GAGCGCCTGC CTTGCACGCA GGAGGTCAGC GGTTCGATCC CGCTTAGCTC CACCATATAG TCCTGTATTT
CAATACTTCA GAGTGTACTG GCAACAGTAT GCTGCGAAGT ATTTTGCTCT TTAACAATCT GGAACAAGCT
GAAAATTGAA ACATGACAGC TGAAACTTAT CCCTCCGTAG AAGTATTGGG GTAAGGATTA ACCTGTCATA
GAGTCTCTCA AATGTAGCAG CACGAAAGTG GAAACACCTT CGGGTTGTGA

(SEQ ID NO 195)

Figure 99

CCTAATGATA TTGATTCGCG TGAAGTGCTC ACACAGATTG TTTGATAGAA ACGTAATGAG CAAAAGCGCT
ACCTGTTGAT GTAATGAGTC ACTGACTCAT GCTGATACGA ACCGATTAAG ACAGTCAGTT TAATCGGATT
TTCGTGTCCC CATCGTCTAG AGGCCTAGGA CACTGCCCTT TCACGGCTGT AACAGGGGTT CGAATCCCCT
TGGGGACGCC ATTCGATAAT GAGTGAAAGA CATTATCACC GGTTCTTGGA ACCGAAAACA TCTTAAAGAT
GACTCTTGCG AGTCGTGTTT AAGATATTGC TCTTTAACAA TCTGGAACAA GCTGAAAATT GAAACATGAC
AGCTGAAACT TATCCCTCCG TAGAAGTATT GGGGTAAGGA TTAACCTGTC ATAGAGTCTC TCAAATGTAG
CAGCACGAAA GTGGAAACAC CTTCGGGTTG TGA

(SEQ ID NO 196)

Figure 100

TAAGGATAAG GAAGAAGCCT GAGAAGGTTT CTGACTAGGT TGGGCAAGCA TTTATATGTA AGAGCAAGCA
TTCTATTTCA TTTGTGTTGT TAAGAGTAGC GCGGTGAGGA CGAGACATAT AGTTTGTGAT CAAGTATGTT
ATTGTAAAGA AATAATCATG GTAACAAGTA TATTTCACGC ATAATAATAG ACGTTTAAGA GTATTTGTCT
TTTAGGTGAA GTGCTTGCAT GGATCTATAG AAATTACA

(SEQ ID NO 197)

Figure 101

TAAGGATAAG GAAACCTGTG AATCTTTTTTC CCTTCTTTTG TTCAGTTTTG AGAGGTTCAT CTCTCAAAAC
GTGTTCTTTG AAAACTAGAT AAGAAAAGTT AGTGTAAAAA GACGAAGAGA AACCGTAGGT TTTTCTTCAA
CCAAAACCGA GAATCAAACC GAGAAAGAAT CTTTCCGTTT TCATAAGCGA TCGCACGTTT ATGAAAACAC
AACAACACCT TCGTAAGAAG GATGA

(SEQ ID NO 213)

Figure 102

TAAGGATAAG GAAACCTGTG AATCTTTTTC CCTTCTTTTG TTCAGTTTTG AGAGGTCAAT GACGCTCATA
CTGAGTACCA GGTGACACGT TTTTGAGGTG TCTCTTCGTA TGAGGGGCCT ATAGCTCAGC TGGTTAGAGC
GCACGCCTGA TAAGCGTGAG GTCGGTGGTT CGAGTCCACT TAGGCCCACT TTTTTGAATA AACCTTTCTT
TTTTATATGT TAATAAGGGG CCTTAGCTCA GCTGGGAGAG CGCCTGCTTT GCACGCAGGA GGTCAGCGGT
TCGATCCCGC TAGGCTCCAC CAAAGATAGT TTGTTCTTTG AAAACTAGAT AAGAAAAGTT AGTGTAAAAA
GACGAAGAGA AACCGTAGGT TTTTTCTTCAA CCAAAACCGA GAATCAAACC GAGAAGAAT CTTTCCGTTT
TCATAAGCGA TCGCACGTTT ATGAAAACAC AACAACACCT TCGTAAGAAG GATGA

(SEQ ID NO 214)

Figure 103

TAAGGATAAG GAAACCTGTG AATCTTTTTC CCTTCTTTTG TTCAGTTTTG AGAGGTCAAT GACGCTCATA
CTGAGTACCA GGTGACACGT TTTTGAGGTG TCTCTTCGTA TGAGGGGCCT ATAGCTCAGC TGGTTAGAGC
GCACGCCTGA TAAGCGTGAG GTCGGTGGTT CGAGTCCACT TAGGCCCACT TTTTTGAATA AACCTTTCTT
TTTTATATGT TAATAAGGGG CCTTAGCTCA GCTGGGAGAG CGCCTGCTTT GCACGCAGGA GGTCAGCGGT
TCGATCCCGC TAGGCTCCAC CAAAGATAGT TTGTTCTTTG AAAACTAGAT AAGAAAAGTT AGTGTAAAAA
GACGAAGAGA AACCGTAGGT TTTTCTTCAA CCAAAACCGA GAAAGAATCT TTCCGTTTTC ATAAGCGATC
GCACGTTTAT GAAAACACAA CAACACCTTC GTAAGAAGGA TGA

(SEQ ID NO 215)